Jameco Part number 101397

JAMECO
ELECTRONIC COMPONENTS
COMPUTER PRODUCTS

Part No. 101397

Product No. SNP9F40

Skynet 61 Watt Switching Power Supply

1355 Shoreway Rd., Belmont, CA 94002 * Tel: 415-592-8097 * Fax: 415-592-2503 * BBS: 415-637-9025

Features:

Agency

Approvals

Output: +5VDC @ 4A; + 12VDC @ 3A;
-5VDC @ 0.3A; -12VDC @ 0.3A

Input: 115VAC @ 1.5A or 230VAC @ 0.8A
50/60 Hz

Auto switch input

Molex style input & output connectors

Size: 3"L x 5"W x 1"H

Weight: 0.48 lbs.

Compatible Products

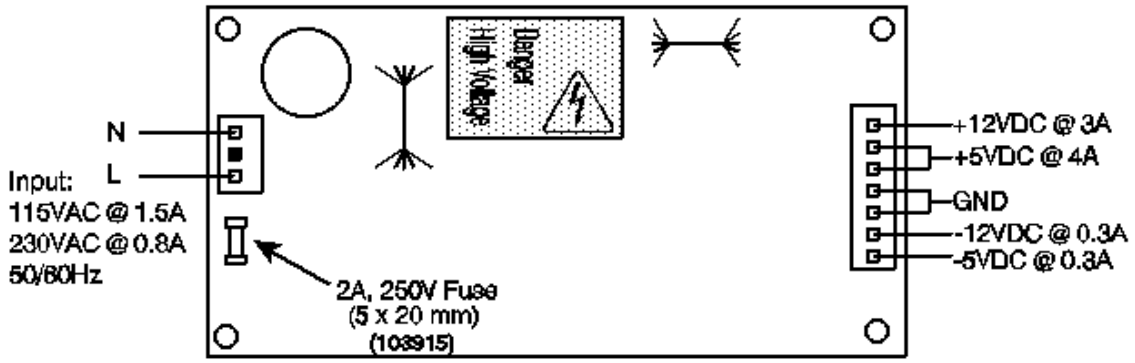
Input mating connector: 104432-3 pin female connector housing

Output mating connector: 104740-7 pin female connector housing

Note: use 104774 pins and 99442 crimp tool for both connectors

Fuse: 2A, 250V, 5 x 20mm (103915)

Jameco Part number 101397



Suggested minimum load is 10% of the rated output current for each output

SNP-9F40 SPECIFICATION 9F40-060794

1.0 INTRODUCTION

The SNP-9F40 is a 60 Watts quad outputs switching power supply specially designed for microprocessor based applications, which need an additional Fan for forced air cooling. Its universal AC input from 90V to 264V, plus its over voltage crowbar protection to avoid damage to the external ciucuits, and the hiccup mode function against short circuit or over load condition are another perfect features.

2.0 INPUT SPECIFICATION

2.1 Input Voltage

This power supply can operate continuously from 90VAC to 264VAC.

2.2 Input frequency

The input frequency can range from 47HZ to 63HZ.

2.3 Input current

The maximum input current is 1.5A at 115VAC or 0.8A at 230VAC.

2.4 Inrush current

The maximum inrush current will not exceed 25A at 115VAC input or 50A at 230V AC input from a cold start.

3.0 OUTPUT SPECIFICATION

3.1 Load range

output	min. load	rated load	peak load	voltage accuracy
+5V	0A	4A	6A	4.95V to 5.05V
+12V	0A	3A	4A	11.4V to 12.6V
-12V	0A	0.3A	0.5A	11.4V to 12.6V
-5V	0A	0.3A	0.5A	-5.0V to -5.5V

The adjustable range of +5V output is around 4.75V to 5.75V. The output range of +12V, -12V and -5V will move up and down with +5V setting. At factory, all outputs in 60% rated load conditions, the +5V output is set to between 4.95V and 5.05V, and the other outputs are checked to be within the specified voltage accuracy range.

3.2 Ripple and noise

The peak to peak ripple and noise for +5V is less than 50mV, for the others are less than 100mV. Measuring is done by 15 MHz band width limited oscilloscope and terminated each output with a 0.47uF capacitor at rated loading, nominal line.

3.3 Line regulation

The line regulation for +5V is less than + - 1%, for +12V is less than +-2%, for -12V,-5V is less than +-3% while measuring at rated loading and + - 10% of input voltage changing.

3.4 Load regulation

The load regulation for +5V, +12V are less than + -3%, for -12V,-5V is less than + -5%, measuring is done by

Jameco Part number 101397

changing the measured output loading + -40% from 60% rated load, and keep other output at 60% rated load.

4.0 GENERAL FEATURE

4.1 Efficiency
The efficiency is higher than 70% while measuring at nominal line and rated output.

4.2 Hold up time
The hold up time is longer than 16mS at 115VAC input and rated load.

4.3 Protection
For some reason the power supply fails to control itself, the build in over voltage protection circuit will shut down the outputs to prevent damage to external circuits. The trip point of crowbar circuit is around 5.7V to 6.7V. The power supply will goes into hiccup mode against short circuit or over load conditions, and will auto-recovery while fault conditions moved.

5.0 ENVIRONMENT SPECIFICATION

5.1 Operating temperature
0°C to 50°C

5.2 Storage temperature
-20°C to 85°C

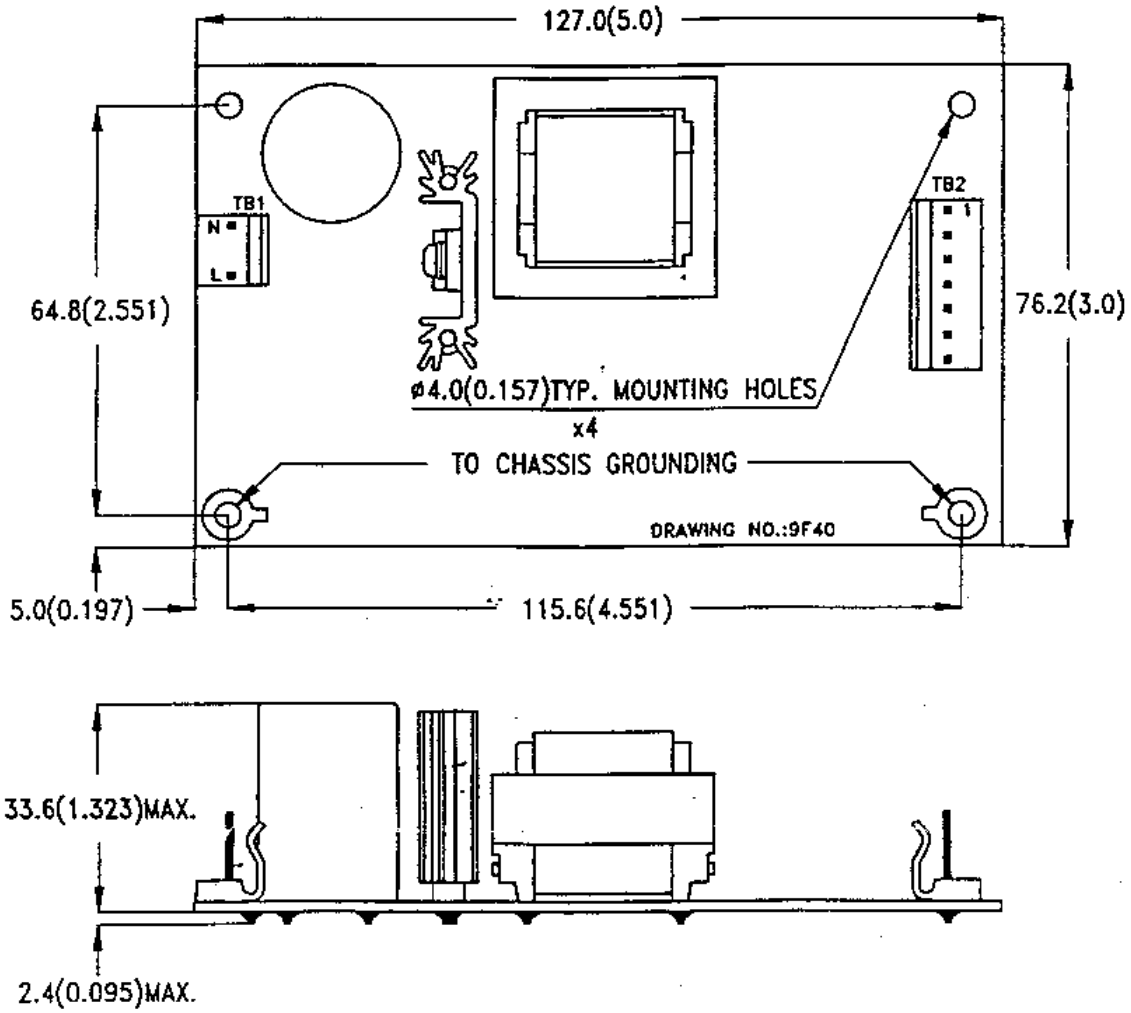
5.3 Altitude
Will operate properly at any altitude between 0 to 10000 ft.

6.0 INTERNATIONAL STANDARDS

6.1 Safety standards
Designed to meet the following standards
UL 1950 D3
CSA 22.2 NO. 220.
VDE EN 60 950

6.2 EMI standards
Designed to meet the following conducted limits
FCC docket 20780 curve "B"

7.0 MECHANICAL SPECIFICATION



7.1 Dimensions

Dimensions shown in mm (inch) as above. Tolerance specified is + - 0.4 mm.

7.2 Connectors

TB1-AC input : Molex 5277-02A or equivalent
TB2-DC output : Molex 5273-07A or equivalent

7.3 DC output pin assignment

pin	1	12V
	2	5V
	3	5V
	4	GND
	5	GND
	6	-12V
	7	-5V